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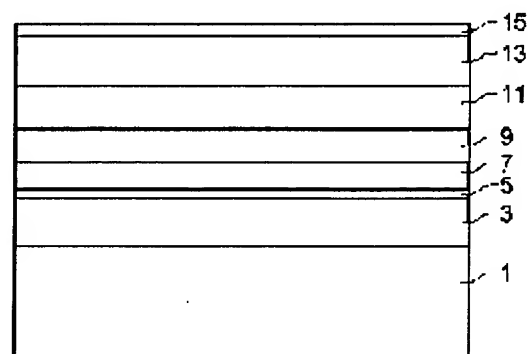
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(54) ANTIREFLECTION FILM AND ANTIREFLECTION LAYER-AFFIXED PLASTIC SUBSTRATE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a colorless antireflection film excellent in productivity and high in transparency, and an antireflection layer-affixed plastic substrate and to provide an antireflection film and an antireflection layer-affixed plastic substrate having moisture-proofing and gas-barrier properties and being excellent in optical characteristics.

SOLUTION: An antireflection film is provided which comprises a hard coat layer formed on a substrate, and a transparent, high-refractive-index oxide layer and a transparent, low-refractive-index oxide layer alternately laminated on the hard coat layer. The transparent, high-refractive-index oxide layer is composed of an Nb₂O₅ layer formed by a reactive sputtering method. In an antireflection film using a substrate consisting of



1: ベース
3: ハードコート層
5: 第1透明高屈折率酸化物層
7: 第1透明低屈折率酸化物層
9: 第2透明高屈折率酸化物層
11: 第2透明低屈折率酸化物層
13: 第3透明高屈折率酸化物層
15: 汚濁層

an organic material, an inorganic, moisture-proofing layer having a refractive index approximate to that of the organic material is formed in contact with one surface of the substrate.

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